

AMENDMENTS**Listing of Claims:**

The following listing of claims replaces all prior versions.

Please amend the pending claims as indicated below:

- 1 1. (Currently amended) A reflective imaging encoder comprising:
2 a substrate;
3 an encapsulated emitter mounted on the substrate, the encapsulated emitter
4 having an optical axis and emitting light that is offset from the optical axis;
5 a diffuse reflective coder reflecting light from the encapsulated emitter;
6 an imaging lens forming an inverted imaging image of the reflected light from
7 the coder;
8 an image detector mounted on the substrate receiving the inverted image from
9 the imaging lens; and
10 a baffle between the encapsulated emitter and the image detector.
- 1 2. (Previously presented) The reflective imaging encoder of Claim 1 where the
2 image detector is a photodiode array.
- 1 3. (Previously presented) The reflective imaging encoder of Claim 1 where the
2 image detector is a CMOS imaging sensor.
- 1 4. (Currently amended) The reflective imaging encoder of Claim 1 where the
2 encapsulated emitter is a light emitting diode.
- 1 5. (Canceled)
- 1 6. (Original) The reflective imaging encoder of Claim 4 where the light emitting
2 diode is encapsulated.
- 1 7. (Currently amended) The reflective imaging encoder of Claim 4 where the
2 encapsulated emitter is a packaged light emitting diode.

1 8. (Currently amended) The reflective imaging encoder of Claim 6 where the
2 ~~encapsulation forms an~~ the optical axis.

1 9. (Original) The reflective imaging encoder of Claim 8 where the light emitting
2 diode is mounted on the optical axis.

1 10. (Original) The reflective imaging encoder of Claim 8 where the light emitting
2 diode is mounted offset from the optical axis.

1 11. (Original) The reflective imaging encoder of Claim 6 where the light emitting
2 diode includes a reflector cup.

1 12. (Currently amended) The reflective imaging encoder of Claim 11 where the
2 encapsulation forms ~~an~~ the optical axis.

1 13. (Original) The reflective imaging encoder of Claim 12 where the light
2 emitting diode is mounted on the optical axis.

1 14. (Original) The reflective imaging encoder of Claim 12 where the light
2 emitting diode is mounted offset from the optical axis.

1 15. (Currently amended) The reflective imaging encoder of Claim 4 where the
2 encapsulated emitter is a plurality of light emitting diodes.

1 16. (Original) The reflective imaging encoder of Claim 1 where the imaging lens
2 is separate from the detector.

1 17. (Original) The reflective imaging encoder of Claim 1 where the imaging lens
2 is incorporated into the encapsulation of the detector.

1 18. (Original) The reflective imaging encoder of Claim 1 further comprising an
2 aperture between the detector and the imaging lens.

- 1 19. (Original) The reflective imaging encoder of Claim 1 further including an
2 aperture between the imaging lens and the detector.
- 1 20. (Original) The reflective imaging encoder of Claim 1 further including a first
2 aperture between the coder and the imaging lens and a second aperture between the
3 imaging lens and the detector.
- 1 21.-25. (Canceled)
- 1 26. (Original) The reflective imaging encoder of Claim 1 where the detector is
2 mounted on the optical axis of the imaging lens.
- 1 27. (Canceled)